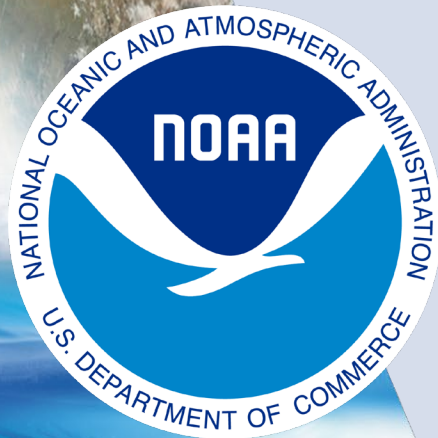# The World Ocean Database Programme (WODP):

Hernan Garcia and Tim Boyer
NOAA National Centers for Environmental Information
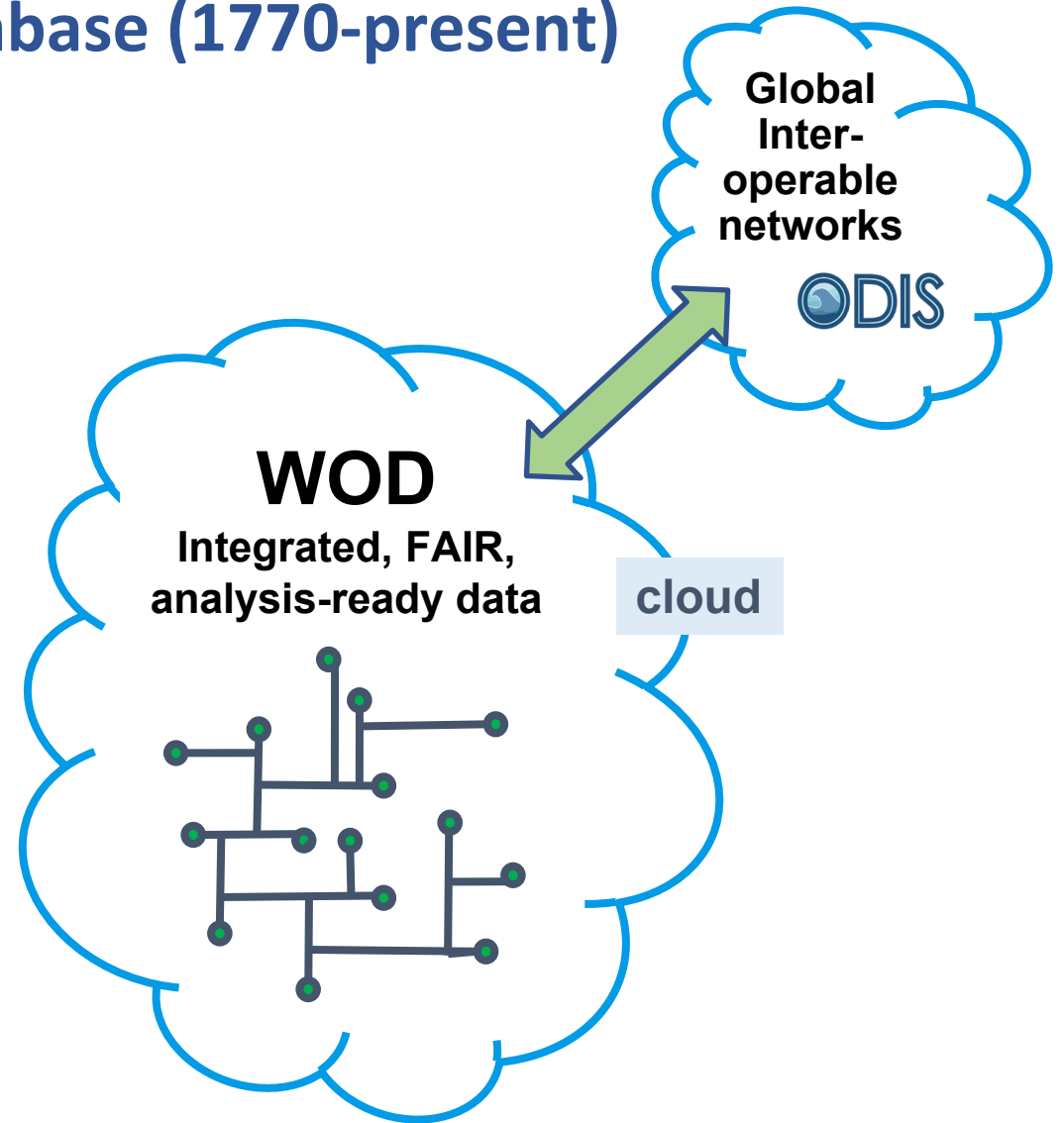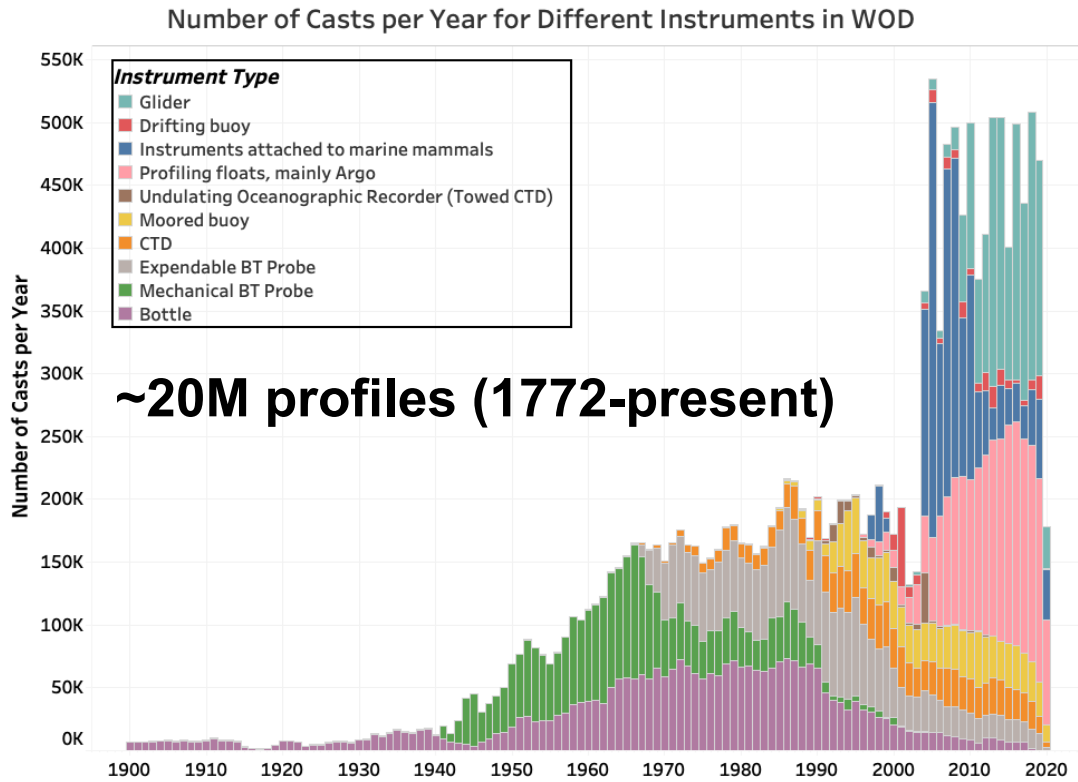
Questions? Hernan.Garcia@noaa.gov

National Oceanic and Atmospheric Administration

1st joint IODE & DCO- Ocean Data Sharing Webinar (Jan 31, 2024)

The WOD is the largest FAIR and quality controlled global oceanographic profile database (1770-present)

Number of Casts per Year for Different Instruments in WOD

Instrument Type
- Glider
- Drifting buoy
- Instruments attached to marine mammals
- Profiling floats, mainly Argo
- Undulating Oceanographic Recorder (Towed CTD)
- Moored buoy
- CTD
- Expendable BT Probe
- Mechanical BT Probe
- Bottle

~20M profiles (1772-present)

WOD
Integrated, FAIR, analysis-ready data

Global Inter-operable networks

ODIS

cloud

Context: We are all connected by one ocean with finite resources and that is subjected to significant man-made climate impacts that have no geopolitical boundaries.

Data are required to implement a climate response or mitigation strategy for a sustainable ocean. Most of the data collected worldwide since the 1900s are in non-uniform formats and science quality.

o   The World Ocean Database (WOD) is a sustained effort for over 20 years by and for all countries to facilitate global ocean data sharing, aggregation, and access (FAIR). IODE have played a fundamental role from the beginning.

o   The WOD is a reliable analysis-ready data tool for oceanographic, climatic, model, and environmental studies. We invite you to participate in helping evolve the WOD!

o   The WOD and World Ocean Atlas 2023 versions are planned to be released soon.

The WOD, a tool by and for all countries with equity

Hernan.Garcia@noaa.gov